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DACS Software Reliability Sourcebook

A State-of-the-Art Report

Introduction

Over the past several years, the phenomenal growth of software reliability engineering has resulted in hundreds of hardcopy and on-line resources for both researchers and practitioners.

The purpose of the *DACS Software Reliability Sourcebook* is to bring together basic software reliability techniques, available resources, and additional information into one concise resource. This resource can be used to meet the day-to-day requirements of the practitioner while still satisfying those wishing to expand their understanding of the subject matter.

Intended Audience

The DACS Software Reliability Sourcebook is intended to be a resource for software developers, testers and managers.

Reliability Resources Included In This Report:

Under the DACS Software Reliability Topic Area, on the DACS Website links to the most recent updates will be provided in each of the following areas:

- ❖ Concise descriptions and examples of the most popular or promising software reliability engineering models, analytical techniques and test practices

- ❖ Descriptions of appropriate automated tools

- ❖ Bibliographic references, where readers can go for additional information

- ❖ On-line references, where readers can go for additional information

- ❖ Identification of current research initiatives and areas of software reliability that require further study

- ❖ Identification of COTS software reliability issues and resources

- ❖ Concise descriptions of current standards and specifications that deal with software reliability, including ordering information from the appropriate standards organizations

Basic Concepts and Definitions Included:

- o Basic mathematical concepts associated with software reliability engineering

- o Basic software reliability definitions and metrics

Material for this publication include available published literature, Internet on-line searches, internal DACS software reliability engineering expertise, and the DACS Expert Network.

This Product is currently in production. Check the DACS Website at
www.dacs.dtic.mil
for further details.

The DACS Software Reliability Sourcebook will be available, September 2000.

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